



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

AS

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763,360	08/09/2001	Nicholas Webb	3036/49686	5293

7590 12/16/2003

CROWELL & MORING LLP  
Intellectual Property Group  
P.O. BOX 14300  
Washington, DC 20044-4300

EXAMINER

MENGISTU, AMARE

ART UNIT	PAPER NUMBER
----------	--------------

2673

DATE MAILED: 12/16/2003

12

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/763,360

Applicant(s)

WEBB ET AL.

Examiner

Amare Mengistu

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 21-34 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 21-34 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_ 6) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### *Drawings*

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the “comparing said received acoustic signal with a predefined signal” (in claim 29) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 33 and 34 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification does not provide support for new limitation to claims 33 and 34 as originally filed “*embedding a predetermined acoustic signal within a sound tack to be transmitted to an entertainment device*”; “*transmitting the sound track to the entertainment*

**device”; “emitting the acoustic signal to the entertainment device”; “wherein the entertainment device comprises on of: a cinema system or internet receiver”.**

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 29-34 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by **Tognazzini** (figs.2, 6 and 7).

6. Claims 21-23,27,28 rejected under 35 U.S.C. 102(e) as being anticipated by

As to claims 21,27,28 Hite et al (hereinafter **Hite**) discloses an information display device (fig.4 (416)) comprising: a display means (fig.4 (416)); activation means coupled to said display means (fig.2a (226), fig. 4 (416), col.3, lines 43-47), for causing said display means to display predefined information upon reception of predefined acoustically propagated data broadcast by a commercial broadcast source (col.3, lines 17-28, col.6, lines 55-62, col.2, lines 48- col.8, lines 2), wherein said commercial broadcaster source comprises one of a commercial

radio broadcaster and a commercial television broadcaster (col.3, lines 60- col.4, lines 3, col.5, lines 1-17).

In regard to claim 22, said acoustic signal is digitally modulated (see. Fig.5 (558,580,520), col. 10, lines 60- col.11, lines 10) as taught by **Hite**.

7. As to claim 23, **Hite** further teaches programming means for programming said predefined data and said predefined information (see, col.6, lines 6067). The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Hite et al (6,002,393)** in view of **Robbins et al (6,147,713)** and **William Cross land (GB 2 149 554)**.

As to claims 24-26, **Hite** discloses broadcasted commercial display device, but was silent the device having analog to digital converter including specific integrated circuit and a programmable digital processor. **Robbins et al (hereinafter Robbins)** clearly teaches it is well known for display device to have A/D converter, specific integrated circuit and a programmable digital processor (see, col.3, lines 1-4, lines 14-25; col.4, lines 53-55).

Therefore, it would have been obvious to one skill in the art at the time of the invention was made to have been motivated to combine the A/D converter, specific integrated circuit and a programmable digital processor of **Robbins** in to the system of **Hite** because this is

advantageous to provide such a converter that is economical to produce using a low cost very large scale integration application specific integrated circuit to provide the majority of the converter functions (see, col.2, lines 37-41).

**Hite** as modified by **Robbins** has also failed to teach that the display is an LCD and the device includes a microphone and a battery. **William Cross land** (hereinafter **Cross land**) is cited to teach that it is conventional for information display device to be LCD type (see, Abstract; page 1, col.1, lines 35-41) and the electronic device also use a battery (page 1, col.2, lines 114-118). It is obvious that the devices of **cross land** (figs. 6,7, and 9) have a microphone.

Therefore, it would have been obvious to one skill in the art at the time of the invention was made to have incorporated the LCD, microphone and the battery system of **Cross land** in to the device of **Hite** because this will allow the **Hite's** device to have a better picture quality and also provide to be a portable device.

#### ***Response to Arguments***

9. Applicant's arguments with respect to claims 21-34 have been considered but are moot in view of the new ground(s) of rejection.

#### ***Conclusion***

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO**


Art Unit: 2673

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amare Mengistu whose telephone number is (703)305-4880. The examiner can normally be reached on M-F, T-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (703) 305-4938. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9600.

  
Amare Mengistu  
Primary Examiner  
Art Unit 2673

A.M

Dec. 10,2003